



copy

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of

DENNIS T. LAI ET AL.

Patent No.: 7,075,975 B2

Issued: July 11, 2006

Serial No: 09/735,374

Filed: December 11, 2000

For: FAST ADAPTIVE TRANSCEIVER
ARCHITECTURE WITH
SYMMETRIC PREAMBLE DESIGN

Examiner: Cicely Ware

Group Art Unit: 2634

Client ID/Matter No: TITAN 55664

March 2, 2007

Los Angeles, California 90045

REQUEST FOR CERTIFICATE OF CORRECTION

Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**Certificate
of Correction**
MAR 08 2007

Dear Sir:

The above-identified patent has been found to have errors set forth in the enclosed Certificate of Correction. It is requested that this Certificate of Correction be issued and returned to us. Since these errors occurred in the final printing phase of the patent and in the final application, a check in the amount of \$100.00 is enclosed to cover the necessary fees. If any additional fees are needed, please charge Deposit Account

No. 06-2425.

03/07/2007 HLE333 00000008 7075975

01 FC:1811

100.00 OP

MAR - 9 2007

The errors are verifiable in the patent application file as follows:

ERROR

Column 6, line 25, delete "hither" and insert --higher--.

Column 8, line 53, delete "fourth r preamble" and insert --fourth preamble--.

Column 10, delete lines 11 through 30, and insert --providing for each of the first and second stations, a preamble including forward link parameters and reverse link parameters, providing data for each of the first and second stations to be transmitted to an other of the first or second stations, providing for each station packets each including a preamble to be transmitted from each of the first station and second stations to the other of the first or second stations and each packet including data to be transmitted after the preamble, each preamble including forward link parameters and reverse link parameters, the forward link parameters for the preamble in each of the first and second stations being provided in accordance with the reverse link parameters previously transmitted to the first or second stations in a packet from the other of the first or second stations, and the reverse link parameters for each preamble in each of the first or second stations providing an indication to the other of the first or second stations of the forward link parameters to be provided by the other of the first or second stations in the next transmission of a packet from the other of the first or second stations to the first or second stations.--

VERIFICATION

Amendment to Specification filed mailed on October 28, 2004, page 2, line 15. See Attachment.

Applicant error.

Supplemental Examiner's Amendment mailed April 25, 2006, page 2-3. See Attachment.

EX - 9 2007

Column 10, line 34, delete "sequences"
and insert --sequence--.

Printing error.

Column 10, line 49, delete "other one of
the stations" and insert --second station--.

Examiner's Amendment mailed April 22,
2005, page 3. See Attachment.

Column 10, line 61, delete "other station"
and insert --second station--.

Examiner's Amendment mailed April 22,
2005, page 3-4. See Attachment.

These errors occurred in good faith and correction thereof does not involve such
changes in the patent as would constitute new matter or would require re-examination.


It is requested that a Certificate of Correction be issued and returned to us.

Attached hereto, in duplicate, is Form PTO-1050, with at least one copy being
suitable for printing.

A duplicate of this document is attached.

Respectfully submitted,

FULWIDER PATTON LLP

By: 
Ellsworth R. Roston
Registration No. 16,310

ERR:ck
Enclosures

Howard Hughes Center
6060 Center Drive, Tenth Floor
Los Angeles, CA 90045
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Customer No. 24201

157761

1009 - 9 2007

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 2

PATENT NO. : 7,075,975 B2

APPLICATION NO.: 09/735,374

ISSUE DATE : July 11, 2006

INVENTOR(S) : Dennis T. Lai et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 6,

Line 25, delete "hither" and insert --higher--.

Column 8,

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Column 10, delete lines 11 through 30, and insert --providing for each of the first and second stations, a preamble including forward link parameters and reverse link parameters, providing data for each of the first and second stations to be transmitted to an other of the first or second stations, providing for each station packets each including a preamble to be transmitted from each of the first station and second stations to the other of the first or second stations and each packet including data to be transmitted after the preamble, each preamble including forward link parameters and reverse link parameters, the forward link parameters for the preamble in each of the first and second stations being provided in accordance with the reverse link parameters previously transmitted to the first or second stations in a packet from the other of the first or second stations, and the reverse link parameters for each preamble in each of the first or second stations providing an indication to the other of the first or second stations of the forward link parameters to be provided by the other of the first of second stations in the next transmission of a packet from the other of the first or second stations to the first or second stations.--

Column 10,

Line 34, delete "sequences" and insert --sequence--.

MAILING ADDRESS OF SENDER:

**Ellsworth R. Roston
Fulwider Patton LLP
6060 Center Drive, 10th Floor
Los Angeles, CA 90045**

This collection of information is required by 37 CFR 1.322 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief of Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450 Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORM TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

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Page 2 of 2

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Column 10,

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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/735,374 7,075,975	
	Filing Date	12/11/02 7/11/06	
	First Named Inventor	Dennis T. Lai et al.	
	Art Unit	2634	
	Examiner Name	Cicely Ware	
Total Number of Pages in This Submission	21	Attorney Docket Number	TITAN-55664

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 1. Request for Certificate of Correction 2. Certificate of Correction 3. Return postcard
<div>Remarks</div>		

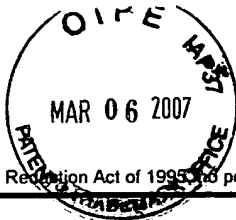
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	FULWIDER PATTON LLP		
Signature			
Printed name	Ellsworth R. Roston		
Date	March 2, 2007	Reg. No.	16,310

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Ellsworth R. Roston	Date	March 2, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Approved for use through 01/31/2007. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL for FY 2006

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) \$100.00

Complete if Known

Application Number	09/735,374	7,075,975 B2
Filing Date	12/11/02	7/11/06
First Named Inventor	Dennis T. Lai et al.	
Examiner Name	Cicely Ware	
Art Unit	2634	
Attorney Docket No.	TITAN-55664	

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☐ Deposit Account Deposit Account Number: 06-2425 Deposit Account Name: FULWIDER PATTON LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or any underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid(\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims Extra Claims Fee (\$) Fee Paid (\$)
- 20 or HP = x \$25.00 = \$0.00

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims Extra Claims Fee (\$) Fee Paid (\$)
- 3 or HP = x \$100.00 = \$0.00

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listing under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)
- 100 = 0 / 50 0 (round up to a whole number) x \$125.00 = \$0.00

4. OTHER FEE(S)

Non-English specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Certificate of Correction

\$100.00

SUBMITTED BY

Signature	Registration No. (Attorney/Agent)	16,310	Telephone	(310) 824-5555
Name (Print/Type)	Ellsworth R. Roston		Date	March 2, 2007

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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MAR 9 2007



AMENDMENTS TO THE SPECIFICATION:

Page 13, lines 7, 8 and 10:

Each packet 40 transmitted by each of the systems 10 and 20 to the other system includes a preamble 34 and includes data after the preamble. In addition to the forward link parameters and the reverse link parameters, each preamble 34 may include a training sequence 42 which provides sequences for synchronization, channel estimation and delay profile. Parameters such as E_b/N_0 , C/I and delay spread and parameters from [[a]] the higher layer network 52 may be provided at each of the systems 10 and 20 to modify the reverse link parameters from the other system in providing the forward link parameters 32 to be transmitted in the next packet 40 to the other system. As will be seen from the discussion previously relating to the channel estimator 72 in each station, the parameters such as E_b/N_0 , C/I and delay spread for that station correspond to the parameters specified for the channel estimator 72 on page 11 of the specification for the station. The designation "higher layer network" indicates that the higher layer network 52 for each station has a higher priority in providing the forward link parameters for that station than the reverse link parameters from the other station.

SUPPLEMENTAL EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney John Fitzgerald on April 19, 2006:

LISTING OF CLAIMS:

a. Claim 20, lines 3-16, delete "providing for each, in communicating with the other station, a preamble including forward link parameters and reverse link parameters, providing data for each station to be transmitted to the other station, providing for each station packets each including a preamble to be transmitted from the station to the other station and each including data to be transmitted after the preamble, each preamble including forward link parameters and reverse link parameters, the forward link parameters for the preamble in each station being provided in accordance with the reverse link parameters previously transmitted to the station in a packet from the other station, and the reverse link parameters for each preamble in each individual station providing an indication to the other station of the forward link parameters to be provided by the other station in the next transmission of a packet from the other station to the individual station." insert "providing for each of the first and second stations, a preamble including forward link parameters and reverse link parameters, providing data for each

Art Unit: 2611

of the first and second stations to be transmitted to an other of the first or second stations, providing for each station packets each including a preamble to be transmitted from each of the first station and second stations to the other of the first or second stations and each packet including data to be transmitted after the preamble, each preamble including forward link parameters and reverse link parameters, the forward link parameters for the preamble in each of the first and second stations being provided in accordance with the reverse link parameters previously transmitted to the first or second stations in a packet from the other of the first or second stations, and the reverse link parameters for each preamble in each of the first or second stations providing an indication to the other of the first or second stations of the forward link parameters to be provided by the other of the first of second stations in the next transmission of a packet from the other of the first or second stations to the first or second stations."

b. Claim 21, line 2, delete "each preamble to be transmitted from each station to the other station includes a training sequences.", insert "each preamble to be transmitted from each of the first and second stations to the other of the first or second stations includes a training sequences."


KHAI TRAN
PRIMARY EXAMINER

MAR 9 2007

station." insert "providing for the first station, in communicating with the second station , a preamble including forward link parameters and reverse link parameters, providing data for the first station to be transmitted to the second station, providing for the first station packets each including a preamble to be transmitted from the first station to the second station and each including data to be transmitted after the preamble, each preamble including forward link parameters and reverse link parameters, the forward link parameters for the preamble in the first station being provided in accordance with the reverse link parameters previously transmitted to the second station in a packet from the second station, and the reverse link parameters for each preamble in the first station providing an indication to the second station of the forward link parameters to be provided by the second station in the next transmission of a packet from the second station to the first station."

- b. Claim 21, line 2, delete second instance "each" insert "the first".
- c. Claim 21, line 2, delete "other", insert "second".
- d. Claim 23, line 7, delete "each of the stations", insert "the first station"
- e. Claim 23, line 8, delete "other one of the stations", insert "second station".
- f. Claim 23, line 9, delete "each of the stations", insert "the first station".
- g. Claim 23, line 10, delete "other", insert "second".
- h. Claim 24, line 2, delete "each of the stations", insert "the first station".
- i. Claim 24, line 3, delete "other", insert "second".
- j. Claim 25, line 2, delete "each of the stations", insert "the first station".

Art Unit: 2634

- k. Claim 25, line 3, delete "other", insert "second".
- l. Claim 26, line 2, delete first instance "first".
- m. Claim 26, line 3, delete first instance "second".
- n. Claim 26, lines 4-6, delete "the higher layer network in each individual station having a higher priority than the reverse link parameters in the other station in providing the forward link parameters for the individual station.", insert "the higher layer network in the first station being used instead of the reverse link parameters in the second station in providing the forward link parameters for the first station."
- o. Claim 28, line 5, delete first instance "first".
- p. Claim 28, line 6, delete first instance "second".
- q. Claim 28, lines 7-9, delete "the higher layer network in each individual station having a higher priority than the reverse link parameters in the other station in providing the forward link parameters for the individual station", insert "the higher layer network in the first station being used instead of the reverse link parameters in the second station in providing the forward link parameters for the first station"

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